

DATE: May 1, 2008

GROUNDWATER MONITORING REPORT

Facility No.: <u>256357</u> Addresses: ConocoPhillips Site Manager: Consultant / Contact Person:

Primary Agency/Contact.:

SECOR Project No:

3323 Marine Drive Northeast, Marysville Washington

Mike Noll (RM&R 2926)

SECOR International Inc. / Gary Kollman

U.S. Environmental Protection Agency, Region 10/Mr. Mike Shepherd

01CP.02926.40

WORK PERFORMED THIS QUARTER [1st - 2008]:

- On March 28, 2008, SECOR personnel monitored, purged, and sampled eight wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) of the existing network of eight groundwater monitoring wells (MW-1 through MW-8).
- Groundwater samples were collected using a peristaltic pump with dedicated polyethylene tubing in the well casing and a new section of silicon tubing in the pump head. Complete groundwater monitoring, purging, and sampling procedures are provided in Attachment A.
- All samples were submitted to Lancaster Laboratories for analysis of gasoline-range hydrocarbons (TPH-g) per Northwest Method NWTPH-Gx; diesel (TPH-d) and heavy oil (TPH-o) range hydrocarbons per Northwest Method NWTPH-Dx; and benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-buytl ether (MTBE) per United States Environmental Protection Agency (USEPA) Method 5030/8260B. The laboratory analytical report is provided in Attachment B.

DATA SUMMARY THIS QUARTER:

Frequency of Sampling Events:	Quarterly	(02/07,05/07,08/07,11/07)
Depth to Groundwater:	10.26 ft. (MW-5) to	(Measured Feet Below Top of
	11.91 ft. (MW-8)	Top of Well Casing)
Groundwater Gradient:	Southwest	(Inferred Direction)
	0.003	(Approximate Magnitude)
Maximum TPH-G Concentration:	None detected	(ppb / well ID)
Maximum TPH-D Concentration:	None detected	(ppb / well ID)
Maximum TPH-O Concentration:	None detected	(ppb / well ID)
Maximum Benzene Concentrations:	None detected	(ppb / well ID)
Measurable Free Product Detected:	None detected	(Yes - ID well(s)/No)
Free Product Recovered This Quarter:	None detected	(Gallons)
Cumulative Free Product Recovered to Date:	None detected	(Gallons)
Water Wells or	None	(Type)
Surface Waters w/in 2,000 ft:	Quilceda Creek	
Radius and Respective Direction From Site:	NA	(Distance & Direction)
Current Remedial Action:	None	(SVE/AS/P&T/MNA etc.)
Permits for Discharge:	None	(NPDES, POTW, etc.)
AS = air sparge MNA = monitoring natural attenuation	P&T = pump and treat POTW = Publicly Owned	i

NPDES = National Pollution Discharge Elimination System

SVE = soil vapor extraction Treatment Works

DISCUSSION:

- The groundwater samples were received at Lancaster Laboratories on March 29, 2008. Based on a review
 of the laboratory reports, it appears the submitted water samples were analyzed within the specified
 holding times and that Lancaster followed their quality assurance/quality control (QA/QC) procedures
 during analysis.
- TPH-g was not detected at concentrations greater than the laboratory reporting limit (RL) in any of the groundwater samples collected this quarter.
- TPH-d was not detected at a concentration greater than the RL in any of the groundwater samples collected this quarter.
- TPH-o was not detected at a concentration greater than the RL in any of the groundwater samples collected this quarter.
- Benzene was not detected at concentrations greater than the RL in any of the groundwater samples collected this guarter.
- Toluene was not detected at concentrations greater than the RL in any of the groundwater samples collected this quarter.
- Ethylbenzene was not detected at concentrations greater than the RL in any of the groundwater samples collected this quarter.
- Total xylenes were not detected at concentrations greater than the RL in any of the groundwater samples collected this guarter.
- MTBE was not detected at concentrations greater than the RL in any of the groundwater samples collected this quarter.
- No drums of purge water were left on site.

WORK PROPOSED FOR NEXT QUARTER [2st - 2008]:

Measure depth to water, purge, and sample eight groundwater monitoring wells (MW-1 through MW-8). Submit groundwater samples for analysis for NWTPH-Gx, NWTPH-Dx, BTEX, and MTBE.



ATTACHMENTS:

Figure 1: Site Location Map

Figure 2: Site Plan with Groundwater Elevations (3/28/08)

Figure 3: Site Plan with Groundwater Analytical Results (3/28/08)

Table 1: Summary of Groundwater Elevations and Sample Analytical Results

Table 2: Cumulative Summary of Groundwater Elevations and Sample Analytical Results

Attachment A: SECOR Monitoring Well Gauging, Purging, and Sampling Procedures; Groundwater

Monitoring Field Data Records

Attachment B: Laboratory Analytical Report and Chain-of-Custody Record

Attachment C: Limitations and Certifications for Non-phase I Reports

Prepared By:

Pablo Cortez Staff Geologist Reviewed By:

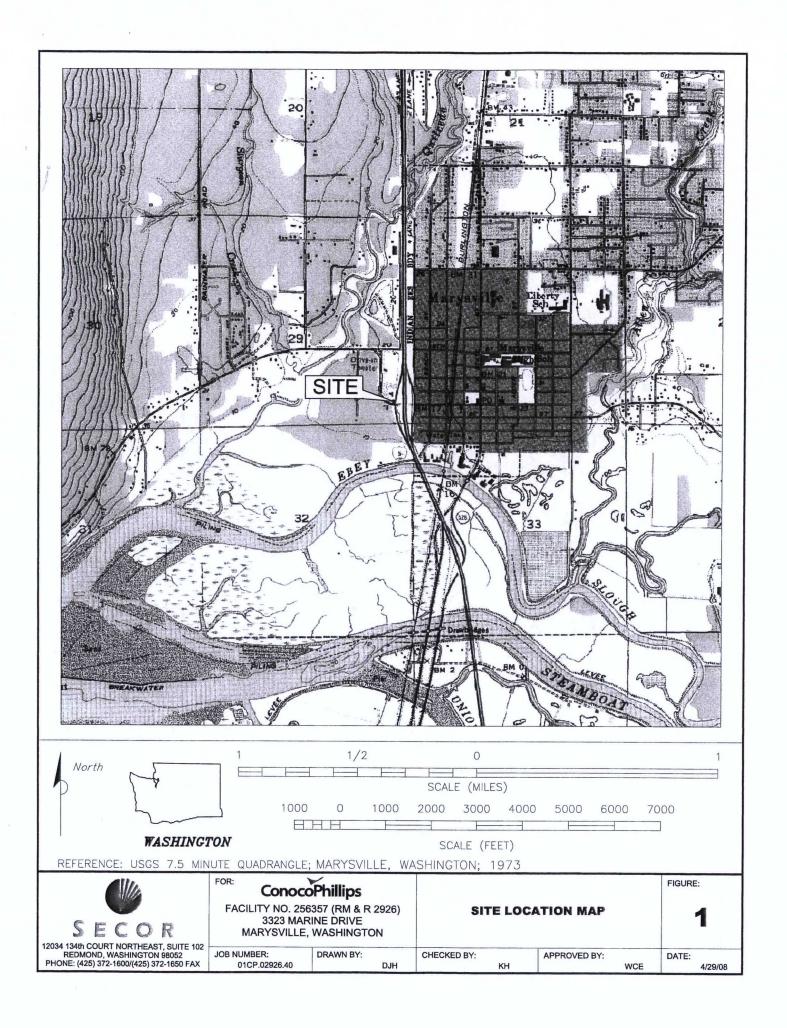
Gary Kollman

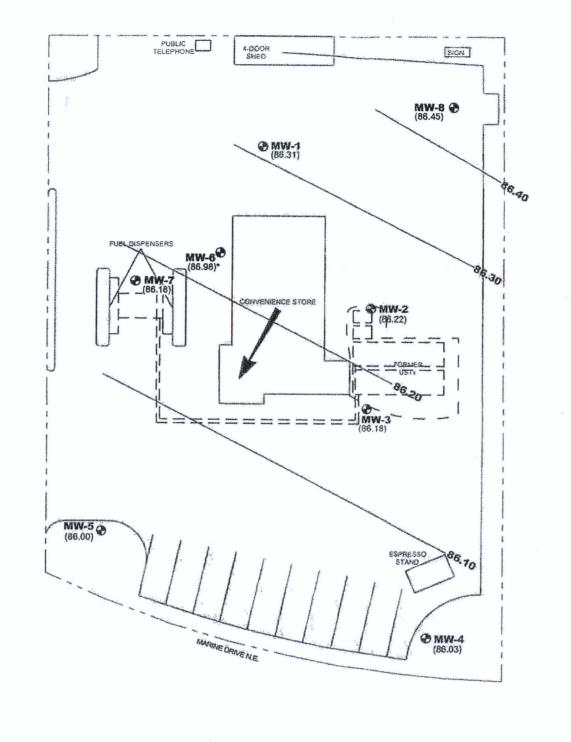
Senior Project Manager

cc: LUST Coordinator, Washington Department of Ecology

Ms. Charlotte Boulind-Yeung, USEPA Region 10

FIGURES





LEGEND

- - - PROPERTY LINE - - - PRODUCT LINE - APPROXIMATE EDGE OF OCTOBER 1995 EXCAVATION MW-1 @ MONITORING WELL LOCATION UST UNDERGROUND STORAGE TANK (86.45 **GROUNDWATER ELEVATION** - GROUNDWATER ELEVATION CONTOUR INFERRED GROUNDWATER FLOW DIRECTION

NOTES

* WELL MW-6 NOT USED IN CONTOURING DUE TO AN ANOMALY.

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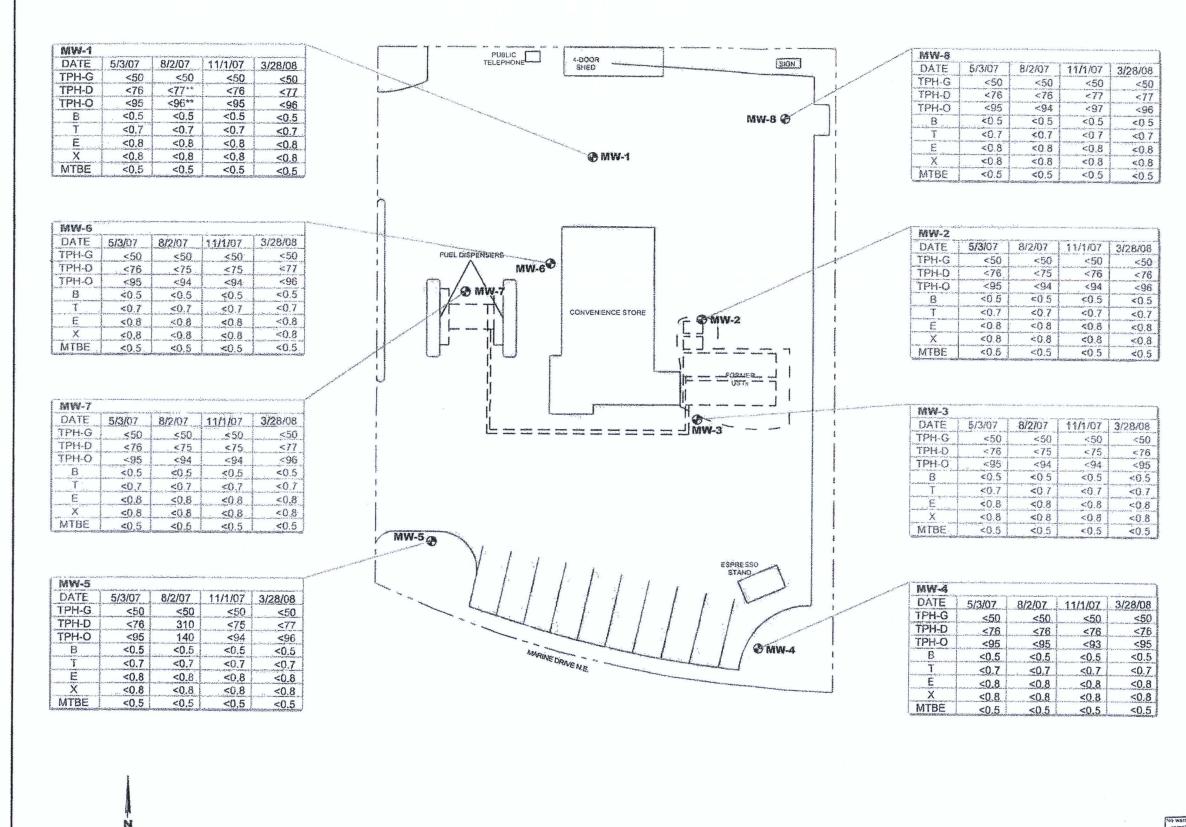
SITE PLAN WITH **GROUNDWATER ELEVATIONS** (3/28/08)

FIGURE:

JOB NUMBER: 01CP.02926.01

DRAWN BY CHECKED BY: APPROVED BY: DATE: 4/15/08

60 SCALE IN FEET



LEGEND

- PROPERTY LINE

- - - - PRODUCT LINE

- APPROXIMATE EDGE OF OCTOBER 1995 EXCAVATION

MW-1 @

MONITORING WELL LOCATION

UNDERGROUND STORAGE TANK

ANALYTES

WELL ID	
TPH-G	GASOLINE RANGE HYDROCARBONS
TPH-D	DIESEL RANGE HYDROCARBONS
TPH-O	HEAVY OIL RANGE HYDROCARBONS
В	BENZENE
T.	TOLUENE
E	ETHYL BENZENE
X	TOTAL XYLENES
MTBE	METHYL TERTIARY BUTYL ETHER

UNITS IN MICROGRAMS PER LITER (µg/L)

- NOT DETECTED AT OR ABOVE THE LABORATORY METHOD DETECTION LIMIT
- NOT ANALYZED OR NOT APPLICABLE
- LESS THAN LABORATORY REPORTING LIMITS
- RETURNED TO SITE ON 8/10/07 TO RE-SAMPLE TPH-G AND TPH-O; BOTTLES WERE DAMAGED DURING PREVIOUS SHIPPING

NOTES

1). ALL LOCATIONS ARE APPROXIMATE

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APPROVED BY



REDMOND, WASHINGTON

PHONE: (425) 372-1600/372-1700 (FAX)

ConocoPhillips FACILITY NO. 256357 (RM & R 2926) 3323 MARINE DRIVE NE

MARYSVILLE, WASHINGTON

SITE PLAN WITH GROUNDWATER **ANALYTICAL RESULTS** (3/28/08)

FIGURE:

JOB NUMBER: 01CP.02926.01 DRAWN BY:

CHECKED BY:

JY

DATE: 4/15/08

SCALE IN FEET

60

TABLES

TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 256357 (RM&R 2926) 3323 Marine Drive Northeast Marysville, Washington

			Water Elevation	Total F	etroleum Hydroc	arbons	Aromatic Hydrocarbons					
Well Name	Sample Date	Depth to Water		Gasoline Range (ug/L)	Diesel Range (ug/L)	Heavy Range (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	
MW-1	05/03/07	10.65	86.79	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
97.44	08/02/07	11.67	85.77	<50	<77"	<96"	<0.5	<0.7	<0.8	<0.8	<0.5	
	11/01/07	12.25	85.19	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
	03/28/08	11.13	86.31	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	
MW-2	05/03/07	10.58	86.76	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
97.34	08/02/07	11.63	85.71	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	
	11/01/07	12.20	85.14	<50	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5	
ĺ	03/28/08	11.12	86.22	<50	<76	<96	<0.5	<0.7	<0.8	<0.8	<0.5	
MW-3	05/03/07	10.25	86.69	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
96.94	08/02/07	11.32	85.62	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	
	11/01/07	11.90	85.04	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	
į	03/28/08	10.76	86.18	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
MW-4	05/03/07	9.85	86.55	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
96.40	08/02/07	10.97	85.43	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
	11/01/07	11.55	84.85	<50	<75	<93	<0.5	<0.7	<0.8	<0.8	<0.5	
į	03/28/08	10.37	86.03	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
MW-5	05/03/07	9.80	86.46	<50	<76	<95	<0.5	<0.7	<0.8	00 1	0.5	
96.26	08/02/07	10.81	85.45	<50	310	140	<0.5	<0.7	<0.8	<0.8	<0.5	
	11/01/07	11.35	84.91	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	
į	03/28/08	10.26	86.00	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	
MW-6	05/03/07	10.75	86.69	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	
97.44	08/02/07	11.75	85.69	<50	<75	<94	<0.5	<0.7	<0.8	<0.8		
4111	11/01/07	12.35	85.09	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5 <0.5	
į	03/28/08	10.46	86.98	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	
MW-7	05/03/07	10.27	86.65	<50	<76	<95	<0.5	<0.7	-00	00	0.5	
96.92	08/02/07	11.27	85.65	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	
00.02	11/01/07	11.85	85.07	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	
ł	03/28/08	10.74	86.18	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	

TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 256357 (RM&R 2926) 3323 Marine Drive Northeast Marysville, Washington

100/07/04		257257		Total F	etroleum Hydroca	arbons	OB THE	Arom	atic Hydroca	rbons	
Well Name	Sample Date	Depth to Water	GW Elevation	Gasoline Range (ug/L)	Diesel Range (ug/L)	Heavy Range (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-7	05/03/07	10.27	86.65	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
96.92	08/02/07	11.27	85.65	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	11.85	85.07	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	03/28/08	10.74	86.18	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
MW-8	05/03/07	11.40	86.96	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
98.36	08/02/07	12.48	85.88	<50	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	13.10	85.26	<50	<77	<97	<0.5	<0.7	<0.8	<0.8	<0.5
	03/28/08	11.91	86.45	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
CA Method	A Cleanup Leve	s:		1,000/800°	500	500	5	1,000	700	1.000	20

NOTES:

All concentrations are in ug/L (ppb).

Depth to water in feet below top of casing.

Groundwater elevation relative to top of casing elevation.

TPH-g = Gasoline range hydrocarbons by Northwest Method NWTPH-Gx.

TPH-d and TPH-o = Diesel and heavy oil range hydrocarbons, respectively, by Northwest Method NWTPH-Dx.

BTEX = Aromatic compounds by EPA Method 8260B.

MTBE = Methyl tert-butyl ether by EPA Method 8260B.

< = Less than the stated laboratory reporting limit.

Bolded values equal or exceed MTCA Method A Cleanup Levels.

^a MTCA Method A Cleanup levels for TPH-g are 1,000 ug/L when no Benzene is present and 800 ug/L when Benzene is present. "Returned to site on 8/10/07 to re-sample TPH-d and TPH-o; bottles were damaged during shipping.

TABLE 2 CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 256357 (RM&R 2926) 3323 Marine Drive Northeast Marysville, Washington

- 20-21				Total F	etroleum Hydroc	arbons	Allegia Co.	Arom	atic Hydroca	arbons	100
Well Name	Sample Date	Depth to Water (feet)	GW Elevation (feet)	Gasoline Range (ug/L)	Diesel Range (ug/L)	Heavy Range (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
B4347 4	00/04/00	10.10	05.04	1 40 1							
MW-1	08/24/06	12.13	85.31	<48	<77	<97	<0.5	<0.7	<0.8	<0.8	<0.5
97.44	11/13/06	11.95	85.49	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	02/15/07	10.71	86.73	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	05/03/07	10.65	86.79	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	08/02/07	11.67	85.77	<50	<77**	<96**	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	12.25	85.19	<50	<76	<95	<0.5	< 0.7	<0.8	<0.8	<0.5
	03/28/08	11.13	86.31	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
MW-2	08/24/06	12.10	85.24	<48	<77	<96	<1.0	<1.0	<1.0	<3.0	<1.0
97.34	11/13/06	11.90	85.44	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	02/15/07	10.64	86.70	<48	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5
1	05/03/07	10.58	86.76	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	08/02/07	11.63	85.71	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	12.20	85.14	<50	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	03/28/08	11.12	86.22	<50	<76	<96	<0.5	<0.7	<0.8	<0.8	<0.5
MW-3	08/24/06	11.77	85.17	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
96.94	11/13/06	11.57	85.37	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	
00.01	02/15/07	10.33	86.61	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	05/03/07	10.25	86.69	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5 <0.5
	08/02/07	11.32	85.62	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	11.90	85.04	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	03/28/08	10.76	86.18	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	00/20/00	10110	00.10	100	170	1 390	\0.5	V0.7	<0.0	<0.0	<0.5
MW-4	08/24/06	11.43	84.97	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
96.40	11/13/06	11.20	85.20	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
	02/15/07	9.92	86.48	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	05/03/07	9.85	86.55	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	08/02/07	10.97	85.43	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	11.55	84.85	<50	<75	<93	<0.5	<0.7	<0.8	<0.8	<0.5

TABLE 2 CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 256357 (RM&R 2926) 3323 Marine Drive Northeast Marysville, Washington

7. 3				Total F	etroleum Hydroc	arbons		Aroma	atic Hydroca	arbons	
Well Name	Sample Date	Depth to Water (feet)	Elevation (feet)	Gasoline Range (ug/L)	Diesel Range (ug/L)	Heavy Range (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
	03/28/08	10.37	86.03	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
MW-5	08/24/06	11.26	85.00	<48	<77	<96	<0.5	< 0.7	<0.8	<0.8	<0.5
96.26	11/13/06	11.02	85.24	<48	<76	<96	<0.5	<0.7	<0.8	<0.8	<0.5
	02/15/07	9.86	86.40	<48	<75	<94	2	<0.7	<0.8	<0.8	<0.5
	05/03/07	9.80	86.46	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	08/02/07	10.81	85.45	<50	310	140	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	11.35	84.91	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	03/28/08	10.26	86.00	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
MW-6	08/24/06	12.20	85.24	<48	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5
97.44	11/13/06	12.02	85.42	<48	<76	<96	<0.5	<0.7	<0.8	<0.8	<0.5
	02/15/07	10.81	86.63	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	05/03/07	10.75	86.69	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	08/02/07	11.75	85.69	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	12.35	85.09	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	03/28/08	10.46	86.98	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
MW-7	08/24/06	11.73	85.19	<48	<77	<97	<0.5	<0.7	<0.8	<0.8	<0.5
96.92	11/13/06	11.54	85.38	<48	<77	<96	0.5	2	<0.8	<0.8	<0.5
	02/15/07	10.33	86.59	<48	<75	<94	<0.5	0.9	<0.8	<0.8	<0.5
ļ	05/03/07	10.27	86.65	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	08/02/07	11.27	85.65	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	11/01/07	11.85	85.07	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
I	03/28/08	10.74	86.18	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
MW-8	08/24/06	12.95	85.41	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
98.36	11/13/06	12.75	85.61	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5
	02/15/07	11.49	86.87	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5
	05/03/07	11.40	86.96	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
	08/02/07	12.48	85.88	<50	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5

TABLE 2

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 256357 (RM&R 2926) 3323 Marine Drive Northeast Marysville, Washington

		Depth to Water te (feet)		Total P	etroleum Hydroc	arbons	Aromatic Hydrocarbons					
Well Name	Sample Date		GW Elevation (feet)	Gasoline Range (ug/L)	Diesel Range (ug/L)	Heavy Range (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	
	11/01/07	13.10	85.26	<50	<77	<97	<0.5	<0.7	<0.8	<0.8	<0.5	
	03/28/08	11.91	86.45	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	

4 12 50 50	1,000/800 ^a	500	500	5	1,000	700	1,000	20
		1,000/800 ^a	1,000/800 ^a 500	1,000/800 ^a 500 500	1,000/800 ^a 500 500 5	1,000/800 ^a 500 500 5 1,000	1,000/800 ^a 500 500 5 1,000 700	1,000/800 ^a 500 500 5 1,000 700 1,000

NOTES:

All concentrations are in ug/L (ppb).

Wellhead elevations were taken from prior consultants reports.

Depth to water in feet below top of casing.

Groundwater elevation relative to top of casing elevation.

TPH-g = Gasoline range hydrocarbons by Ecology Method NWTPH-Gx.

TPH-d and TPH-o = Diesel and heavy oil range hydrocarbons, respectively, by Ecology Method NWTPH-Dx.

BTEX = Aromatic compounds by EPA Method 8260B; previous results by 8021B or 8260B, refer to laboratory reports.

MTBE = Methyl tert-butyl ether by EPA Method 8260B.

< = Less than the stated laboratory reporting limit.

Bolded values equal or exceed MTCA Method A Cleanup Levels.

^a MTCA Method A Cleanup levels for TPH-g are 1,000 ug/L when no Benzene is present and 800 ug/L when Benzene is present.

ATTACHMENT A
SECOR MONITORING WELL GAUGING, PURGING AND
SAMPLING PROCEDURES;
GROUNDWATER MONITORING FIELD DATA RECORDS

SECOR MONITORING WELL GAUGING, PURGING AND SAMPLING PROCEDURES

Monitoring well purging and sampling was conducted based on USEPA approved (Puls and Barcelona, 1996) low-flow sampling techniques whenever possible.

Puraing Procedures

- A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well and diameter of the well casing to calculate the volume of water in the well casing.
- B. Based on previously obtained data, if a monitoring well is suspected of containing LPH concentrations, lower a transparent bailer into the well to evaluate the presence of a hydrocarbon sheen on the water table.
- C. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a de-ionized water rinse.
- D. Purge by low-flow pumping (less than 0.5 liters per minute) for approximately five minutes. Monitor the static water level in the well using a decontaminated instrument and adjust the pumping rate to maintain a minimal drawdown. If low-flow purging is not possible and bailing is used to purge the well, then a minimum of three well volumes will be removed. When purging 3 well volumes, parameters should be measured after each casing volume is removed. If the well goes dry, the procedure listed in step E2 (below) should be followed.
- E. Conduct field measurements (i.e., pH, specific conductivity, temperature, and oxidation-reduction potential) note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.
 - If the well has not been purged dry and drawdown is minimal, continue to pump and conduct field measurements (including depth to water) again every three to five minutes during purging.
 - a) If the first through third series of measurements vary by less than 10 percent, the well has been adequately purged. If bailers are used to purge the well, then the water level is allowed to recover to 80 percent of its static condition, or for two hours, whichever comes first prior to beginning the sampling procedure.
 - b) If the measurements vary by 10 percent or greater, repeat Step E1 above:
 - c) If a minimum of three parameters cannot be measured during purging and or drawdown cannot be controlled to minimal, remove three well volumes with a bailer prior to sampling.
 - If the well has been purged dry, measure the water level and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery, and begin the sampling procedure.

Sampling Procedures

- Use the pump and a clean, dedicated section of tubing to collect the groundwater sample from the screened interval of the water column. If the pump cannot be used, collect the water sample with a clean, dedicated polyethylene disposable bailer.
- Transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.
- Enter the samples into Chain-of-Custody and preserve on ice until delivery to the analytical laboratory.
 Complete the Well Development or Purging/Sampling Log to be stored in the project file.

Reference:

Puls, R.W., and Barcelona M.J., 1996. EPA Ground Water Issue Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, EPA/540/S-95/504.

SECOR

DAILY FIELD LOG

Page: of 3/28/2008 Date: 01CP.02926.40 256357 Project No: ConocoPhillips Site No: Client: Quarter Monitoring/Sampling Scope of Work: Describe Daily Activities: Gauged 2 Number of drums left on site: ____ monitoring wells. monitoring wells. Sampled 4 Calibrate Houter prior to sampling monitoring wells. Field Notes: 8:00 checkin Walte + Station Go over HADD, PTW Apply PAE, sot up decont begin gaugning Purchase ice put to sumpting Sampled MW-2 2 9:53 sampled Mil-1 a Sampled MW-3 @ 10:23 Themade MU-82 2000 Sampled MW-4 @ 10:54 Sampled MW-5 @ 11:36 Simpled mw-72 12:09 Janupled MW-62 12145 Decen equipment + load ap Seame load pack coolers for shipping 7:30 Arrived on Site: 8100 Departed Site: 3-Stage (Alconox Wash, Tap Water Rinse, & Distilled Water Rinse) Decontamination Procedures: Utility Locations Checked?: Daily Health and Safety Log Completed?: Important Conversations: Important Changes in Scope of Work: Wire Subcontractors On Site: Weather Conditions: SECOR Personnel On Site:

				MONITORING & SAMPLING LOG									
S	SECOR		Project Na	me:	2563	57							
			Project Nui			.029	26.40						
INTERNAT	IONAL INCORP	ORATED	SECOR RE	ny Par	ise	3	128/04		,				
			MONII	ORINGA	SAMPLI	NG EQUIP	MENT / METHOD						
Water Level M	leter Type & ID:	Solinist#											
Dissolved Oxyg	gen Meter Type/ID:			YSI Model 5	5#	Calibration:		ft above mean	sea level				
	enventes et interprete												
Decontamination	ethod:	Teflon Bailer				1.6	cated Pump Tubing	OWFR	TW.				
Decontamination	on weated.		Steam / High Pressure Wash										
Pre	evious												
Qı	uarter	Total Depth	Casing Diameter	Calc. 3 Well Volumes	Volumes Purged	Purge Start Time	Digor/Turb:/Color	Sample Time	Comments				
MW-1	11.13		2"				clean	1:14					
MW-2 MW-3 MW-4 MW-5 MW-6 MW-7	11.12			_	1.0			9:53					
1111/3	10.76	7		- 4	W-	-		10:25					
MULLE	10.26				Del	ax.		11:36					
mu-6	10.46				101	4		12:45					
14-7	10.74							12:09					
Mr.1-8	11.91		4				V	2:07					
		-											
		-					AND THE RESIDENCE OF THE PARTY						
				SAMP	LINGIN	IFORM/	ATION						
Con	tainer Types & Volume	es .	Filtered (Y/N)		ole Preservativ			Analytical Param	eters				
6 VC				H	u		THE BIE	MIBE					
	- 1- 2 .			11	8 (2)		-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11.3					

Notes: 1 = feet from mean sea level

2 = elevation adjusted by adding (.75 \times product thickness) to measured water elevation

SECOR PN:	ENFOS PO	#	DA	ATE:	3/28/09	3		WELL NO	MW-1			
SECOR PN:FACILITY NAME: _	251	0357				T	EMPERATU	TRE: 40°	© For °C			
FIELD PERSONNEL	: TUW	my 1	Parise			_ WEATH	HER:	lam				
FIELD MEASUREN)										
A. Static Water Leve	l (SWL) belo	w top of ca	sing/piezome	eter:				11.	13 FT. or IN.			
B. Thickness of Free	Product, if p	resent:	Inche	es					FT. or IN.			
C. Total Depth of we	ll (TD) from	top of casin	ng/piezometer	r:					FT. or IN.			
D. Height of Water C	column in cas	sing (h = TI	O - SWL):					-	FT. or IN.			
E. Useful approxima	E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes: 3 Well Vols 5 Well Vols											
3 Well Vols. 5 Well Vols. 2" Diameter = 0.5 gals/ft 0.82 gals/ft x feet of water =PV (Gal)												
		s/Tt s/ ft	3.25	gals/ft gals/ft					PV (Gal)			
4" Diameter = 2.0 gals/ft 3.25 gals/ft x feet of water =												
PURGING METHOD: LOW FLOW DURATION: START: 1.02 END: 1.23												
OBSERVATIONS:		,	,					Conduct.	SWL			
1 ST Volume:	Time	Color	Turbidity	ORP	pH	DO	Temp.					
2 nd Volume:	1'.07	4	7	265	6.16	3.9	10.4	14	11.13			
	1:10	4	V	263	6.10	3.6	10.4	14	11.13			
3 rd Volume:	1:17	U	0	261	6.21	3.7	10.4	14	11.13			
4 th Volume:							-					
Addl. Volumes:												
TOTAL VOLUME O PURGE WATER STO				_								
SAMPLES COLLEG	CTED: De	pth to Wate	er at time of s	ample colle	ection:		11,13					
Sample Number(s)		Time		Size/N	umber of C	Container(s)) Prese	rvative				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1	4							
					O VALLO /	IWITA		114				
	-						-					
COMMENTS:												
					*							
Casing Capacities: 2-inch hole0.16 gal/lir	n fi				Ī	Recharge C	Calculation a	t Time of Sa	mple Collection:			
4-inch hole0.65 gal/lir								Tot	al Depth of Well:			
6.5-inch hole1.70 gal/li	n ft.				Original		umn:	x 0.80	=()			
8-inch hole2.60 gal/lir						Co	llect sample	_	Water measures			

SECOR PN:	ENFOS PO#	‡	DA	ATE:	3/28/0	08		WELL NO	MW-2			
FACILITY NAME: _	254	357				T	EMPERATU		°F or °C			
FIELD PERSONNEL	:1	amm	m Pan	n		_ WEATH	HER: _((0)	uda/ li	ght rain			
FIELD MEASUREN	MENTS:) (00					* i	J			
A. Static Water Leve	l (SWL) belo	w top of ca	sing/piezome	eter:				11.	12 FT. or IN.			
B. Thickness of Free	Product, if pr	resent:	Inche	ès				Marie Company	FT. or IN.			
C. Total Depth of we	ll (TD) from	top of casi	ng/piezomete	r:					FT. or IN.			
D. Height of Water C	column in cas	ing (h = TI	O - SWL):					-	FT. or IN.			
E. Useful approxima	ite Purge Vo	lumes (PV) per foot of	water col	umn for co	mmon cas	ing sizes:					
3 Well Vols. 5 Well Vols. 2" Diameter = 0.5 gals/ft 0.82 gals/ft x feet of water =PV (Gal)												
								=				
4" Diameter 6" Diameter	_		3.25 7.35									
PURGING METHOD	PURGING METHOD: LOW FLOW DURATION: START: 9.41 END: 10.406											
OBSERVATIONS:	Time	Color	Turbidity	ORP	pН	DO	Temp.	Conduct.	SWL			
1 ST Volume:	9:46	0	3	228	6.10	43	10.1	16	11.08			
2 nd Volume:	9:49	1	2	230	6.09	5.7	10.6	17	1109			
3 rd Volume:	9:52	C	i	177	6.08	24	10,4	17	11 08			
4 th Volume:	1,56			1.70	0,00	6.1	1011	-	11.00			
Addl. Volumes:												
PURGE WATER STO	TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite SAMPLES COLLECTED: Depth to Water at time of sample collection:											
Sample Number(s)		Time		Size/N	Number of C	Container(s)) Prese	ervative				
MW-7-		91.5	53		ovagal	amos		H10				
TV (A)V			-			iv V	-	11-6-				
COMMENTS:				7		***************************************						
Replaced	,3 bal	to u	LMU4 3	trippe	1.							
	· ·											
Casing Capacities: 2-inch hole0.16 gal/lir 4-inch hole0.65 gal/lir 6.5-inch hole1.70 gal/lir	n ft.							Tot	mple Collection: al Depth of Well: =()			
8-inch hole2.60 gal/lin	ı ft.					Co	llect sample		Water measures			
10-inch hole4.10 gal/li	n ft.							Less	than or equal to:			

SECOR PN:	ENFOS PO#	ł .	DA	ATE:	3/28/0	18		WELL NO	MW-3		
FACILITY NAME: _	2	5635	7			T	EMPERATU	RE: 40	(°F) or °C		
FACILITY NAME: _ FIELD PERSONNEL	: TAN	my F	anise			_ WEATH	ER: LA	in_			
FIELD MEASUREM)									
A. Static Water Level	(SWL) belo	w top of ca	sing/piezome	ter:				10.	16 FT. or IN.		
B. Thickness of Free	Product, if pr	esent:	Inche	:S					FT. or IN.		
C. Total Depth of wel	ll (TD) from	top of casir	ng/piezometer	T:				-	FT. or IN.		
D. Height of Water C	olumn in cas	ing (h = TI) - SWL):						FT. or IN.		
E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:											
3 Well Vols. 5 Well Vols. 2" Diameter = 0.5 gals/ft 0.82 gals/ft x feet of water = PV (Gal) 4" Diameter = 2.0 gals/ft 3.25 gals/ft x feet of water = PV (Gal)											
4" Diameter	=										
6" Diameter	= 4.4 gals	/ft	7.35	gals/ft							
PURGING METHOD: LOW FLOW DURATION: START: [0:11 END: 10:3											
OBSERVATIONS: Time Color Turbidity ORP pH DO Temp. Conduct. SWL											
1 ST Volume:	10:16	Color	7 th blufty		/ 12		10.6	19			
2 nd Volume:		<u> </u>	1	241	10.16	2.4	10.7		10.76		
3 rd Volume:	10:19	-	1	241	6.11	2.0		19	10.76		
4 th Volume:	10:22		-	241	6.12	112	10.5	101	10.76		
Addl. Volumes:					-						
SAMPLES COLLECTION Sample Number(s)	ORED/DISPO	OSED OF V	WHERE/HOV	W: Taken of ample coll Size/N	offsite	ontainer(s)	Prese	rvative HCC			
COMMENTS:											
Casing Capacities: 2-inch hole0.16 gal/lin 4-inch hole0.65 gal/lin 6.5-inch hole1.70 gal/lin 8-inch hole2.60 gal/lin	ft. n ft. ft.					Water Coli	ımn:	Tot x 0.80 when Depth to	al Depth of Well: = () Water measures		

SECOR PN:	ENFOS PO#	‡	DA	ATE:	3/28/08))		WELL NO	MW-H
FACILITY NAME: _	2	5635			1 /	T	EMPERATU	JRE: 4	O (F) or °C
FIELD PERSONNEL	and the same of th	MANN	Paris	e		_ WEATH	HER:(louds	
FIELD MEASUREN			, , -						
A. Static Water Leve	l (SWL) belo	w top of ca	sing/piezome	eter:				10.	37 FT. or IN.
B. Thickness of Free		1.5						No. Company Col. Co.	FT. or IN.
C. Total Depth of we									FT. or IN.
D. Height of Water C									FT. or IN.
E. Useful approxima				water col	umn for co	mmon casi	ing sizes:		
2. 000.a. app	3 Well			ell Vols.			8		
2" Diameter			0.82					=	
4" Diameter				gals/ft		x feet of w	rater	=	PV (Gal)
6" Diameter	= 4.4 gals	/ft	7.35	gals/ft		x feet of w	rater	=	PV (Gal)
PURGING METHOD	D:	LOW FLO	OW		_ DURA	ΓΙΟΝ: STΑ	ART: 10:0	17 E	ND: 11/08
OBSERVATIONS:	Time	Color	Turbidity	ORP	pН	DO	Temp.	Conduct.	SWL
1 ST Volume:	10:47	C	H	224	6.34	2,4	10.5	19	10.38
2 nd Volume:	10:50	C	3	220	6.35	1.8	10.5	19	10.37
3 rd Volume:	11 53	C	3	227	6.34	1.6	-	10	10 20
4 th Volume:	10,50	U		201	6.04	1.0	10.5	- 19	10.21
Addl. Volumes:					-				
SAMPLES COLLEGE Sample Number(s)	ORED/DISPO	OSED OF V	WHERE/HOV	W: Taken o	offsite			orvative HCC	
Casing Capacities: 2-inch hole0.16 gal/lir 4-inch hole1.70 gal/lir	n ft.						Calculation a	To	mple Collection al Depth of Well(
8-inch hole2.60 gal/lir						Co	llect sample		o Water measures
10-inch hole4.10 gal/li	n ft.							Less	than or equal to

SECOR PN:	ENFOS PO#		DA	TE:	3/28/08	>		WELL NO.	MW-5					
EACH ITY NAME:	151,30	57			1-1	Ti	EMPER ATI	RE: HO	(F)or °C					
FACILITY NAME: _ FIELD PERSONNEL FIELD MEASUREM	Til home	DA DA A A	në .			WEATH	EP: AAA	/~ /^						
FIELD PERSONNEL	·	W TWO		and the second s		_ WLAIII	ER Popu	V						
FIELD MEASUREM	MENTS:							10	· 7 1					
A. Static Water Level	(SWL) below	w top of ca	sing/piezome	ter:				10.	11.01111.					
B. Thickness of Free	Product, if pr	esent:	Inche	S				****	FT. or IN.					
C. Total Depth of well	ll (TD) from	top of casir	ng/piezometer						FT. or IN.					
D. Height of Water C	olumn in cas	ing (h = TI)) - SWL):						FT. or IN.					
E. Useful approxima					ımn for co	mmon casi	ng sizes:							
2" Diameter	3 Well V			ll Vols.		v feet of w	ater	=	PV (Gal)					
2" Diameter 4" Diameter			0.82		x feet of water =PV (Ga x feet of water =PV (Ga									
6" Diameter		gals/ft		x feet of w	ater									
									ND: 11:46					
PURGING METHOD):	LOW FLC)W		DURA	110N: S1A	K1:	II E	ND: III-JE					
OBSERVATIONS:	Time	Color	Turbidity	ORP	pН	DO	Temp.	Conduct.	SWL					
1 ST Volume:	11:29	C	67	244	6.34	4.4	10.4	19	10.25					
2 nd Volume:	11:32	C	50	241	6.34	3.1	10.8	18	10.25-					
3 rd Volume:	11:35	C	94	240	6.31	2,6	111.1	18	10.25					
4 th Volume:				2510	W			1	10					
Addl. Volumes:														
TOTAL VOLUME O PURGE WATER STO	ORED/DISPO	OSED OF V	WHERE/HOV	W: Taken o	offsite		10.25							
Sample Number(s)		Time			umber of C		Drace	rvative						
MW-5		T IIIIC	36	/) \au / 1	ř.								
		and response to a construction of the					_							
COMMENTS:		December 1997 Average 1997					-							
Repared	3 bolto	- Thu	AROL.											

Casing Capacities: 2-inch hole0.16 gal/lin	n ft.				Ī	Recharge C	Calculation a	at Time of Sa	mple Collection:					
4-inch hole0.65 gal/lir	n ft.								al Depth of Well:					
6.5-inch hole1.70 gal/li					Original		umn:		=(o Water measures					
8-inch hole2.60 gal/lir 10-inch hole4.10 gal/li						C0.	ncer sample		than or equal to:					

SECOR GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN:	ENFOS PO#	1	DA	TE:	3/28/0	8		WELL NO	mw-6	
FACILITY NAME: _	156	357			· · · · · · · · · · · · · · · · · · ·	T	EMPERATU	JRE: 40	€For °C	
FIELD PERSONNEL: TAMMY PAUSE WEATHER: Lam										
)								
A. Static Water Level	(SWL) belo	w top of ca	sing/piezome	ter:				10.	46 FT. or IN.	
B. Thickness of Free	Product, if pr	resent:	Inche	S				-	FT. or IN.	
A. Static Water Level (SWL) below top of casing/piezometer:				FT. or IN.						
FACILITY NAME: 454357 FIELD PERSONNEL: 400 MANA WEATHER: 400 PERSONNEL: 400 MEASUREMENTS: A. Static Water Level (SWL) below top of casing/piezometer: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. B. Thickness of Free Product, if present: Inches FT. or IN. S. Well Vols. 2" Diameter P. Useful vols. 2" Diameter P. V. Gal) B. Well Vols. 2" Diameter P. V. Gal) B. Well Vols. 2 PV (Gal) B. Well Vols. 4 FT. or IN. FT. or IN.										
FACILITY NAME: 450-357 FIELD PERSONNEL: 400 WATHER: 400 WEATHER: 400										
011 D										
	= 0.5 gals	/ T t / ft	3.25	gais/ft						
	PERSONNEL:		7.35	gals/ft						
PURGING METHOD):	LOW FLO				TION: STA	RT: 12'.	33 E	ND: 12',53	
			-							
		/	*				111			
				- (A :	1	11 1		111111111111111111111111111111111111111	
		4		0 . 0		-	11.	1		
	10.79		21	100	0.12	71	1111	17	11100	
SAMPLES COLLECTION Sample Number(s)	ORED/DISPO	oth to Wate	WHERE/HOV	W: Taken of ample colle	offsite ection:	Container(s)	Prese			
FACILITY NAME: 1500 TOPO TOPO TOPO TOPO TOPO TOPO TOPO TO										

SECOR GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN:	ENFOS PO#	1	DA	TE: 3	28/08			WELL NO	MW-7		
FACILITY NAME		2563	57		r t	T	EMPERATU	JRE: 40	(°E)or °C		
FIELD PERSONNEL	: - TA	mm	1 Vari	20		_ WEATH	IER:	rain			
FIELD MEASUREN		d									
A. Static Water Level	l (SWL) belo	w top of ca	sing/piezome	ter:				10	74 FT. or IN.		
B. Thickness of Free	Product, if pr	resent:	Inche	S					FT. or IN.		
C. Total Depth of we	ll (TD) from	top of casis	ng/piezometer	:				-	FT. or IN.		
D. Height of Water C	column in cas	ing (h = TI) - SWL):						FT. or IN.		
E. Useful approxima	_		5 (5)		umn for co	mmon casi	ng sizes:				
2" Diameter	3 Well 7			Il Vols.		y fact of m	oter	_	PV (Gol)		
2" Diameter 4" Diameter			0.82	gals/ft gals/ft							
6" Diameter		gals/ft									
PURGING METHOD).	LOW FLO	OW.		DURAT	TION: STA	RT: 11.	57 E	ND: 12:19		
							·				
OBSERVATIONS:	Time	Color	Turbidity	ORP	pН	DO	Temp.	1 .	SWL		
1 ST Volume:	12:02	C	91	246	6.34	2.8	11.0	16	10,45		
2 nd Volume:	12:05	C	120	245	6.36	2.2	11.2	16	10.73		
3 rd Volume:	12.08	C	140	244	6.36	1,9	11.2	17	10.73		
4 th Volume:			•								
Addl. Volumes:											
TOTAL VOLUME O PURGE WATER STO	ORED/DISPO	SED OF V	WHERE/HOV	V: Taken o	offsite	10:7	ろ				
	TED: Dep		at time of sa			1 -24					
Sample Number(s)		Time	Es.		umber of C						
WM, \		12:0		_ <i>WV</i>	UUA	amine	·	HU			
									and the control of th		
COMMENTS:	-						***************************************		The state of the s		
							1 1				
				×							
Casing Capacities: 2-inch hole0.16 gal/lir 4-inch hole0.65 gal/lir	ı ft.							Tot	al Depth of Well:		
6.5-inch hole1.70 gal/li 8-inch hole2.60 gal/lir					Original '						
10-inch hole4.10 gal/li						Co.	iloci sampie	10,74 FT. or IN. FT.			

$\begin{array}{c} \textit{SECOR} \\ \textbf{GROUNDWATER SAMPLING FIELD DATA SHEET} \end{array}$

SECOR PN:	ENFOS PO#	‡ .	DA	TE:	3/28/0	08		WELL NO	MW-8				
FACILITY NAME: _						TE	EMPERATU	RE: 40	©F or °C				
FIELD PERSONNEL	750	Tam	nm Pari	se		WEATH	ER: Y	ain/1	Light show				
		1	119										
FIELD MEASUREM								117	FT. or IN.				
A. Static Water Level								1110	FT. or IN.				
B. Thickness of FreeC. Total Depth of wel	8				٠.				FT. or IN.				
D. Height of Water C		-		•					FT. or IN.				
E. Useful approxima				water col	umn for co	mmon casi	ng sizes:						
	3 Well	Vols.	5 We	ell Vols.					DV1/C 1)				
2" Diameter : 4" Diameter :			0.82	gals/ft gals/ft					PV (Gal) PV (Gal)				
6" Diameter	-			gals/ft				=					
PURGING METHOD	:	LOW FLO	OW	DURATION: START: 1:48 END:									
OBSERVATIONS:	Time	Color	Turbidity	ORP	pН	DO	Temp.	Conduct.	SWL				
1 ST Volume:	1:58	C	4	153	6.00	4.5	10.1		11.92				
2 nd Volume:	1.56	C	7	246	6.05	4.1	10,2	12	11.92				
3 rd Volume:	1:59	C	6	242	6.02	4.0	10.2	12	11.92				
4 th Volume:													
Addl. Volumes:							, ,						
TOTAL VOLUME O PURGE WATER STO SAMPLES COLLEGE Sample Number(s) WW-8	ORED/DISP(OSED OF V pth to Wate	WHERE/HOV	W: Taken of ample coll Size/N	offsite ection:	Container(s)	Prese	ervative H(0					
17100					1000-110								
COMMENTS:	Bolto	Comple 1 3 bo	tely stri	ipped 10 SAX	once a	ble to	remove	e 164, g	44 474454				
Casing Capacities: 2-inch hole0.16 gal/lii 4-inch hole0.65 gal/lii 6.5-inch hole1.70 gal/li 8-inch hole2.60 gal/lii 10-inch hole4.10 gal/li	n ft. n ft. n ft.				_	Water Col	umn:	Tot x 0.80 when Depth t	tal Depth of Well: =() o Water measures than or equal to:				

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories	For Lancaster Labs Use O				ONLY Acct. #: _			Group #						Sample#:			#:	SCR#:					
Laboratories	008572				200	List total numb Analyses Requested box under each						ber of containers in the ch analysis.			in the	1							
7/1367	ering ng taun menangkan di berandan menangkan di perandan menandan dan berandan menandan menandan menandan men			T	Matri	x	1	400						Code			-		Prese	rvative Cod	es		
Site City: MANASVUCC	State: UA-				☐ Potable ☐ NPDES	PDES		ゴボ	KIMIBE T				720						9		H = HCI N = HNO ₃	T = Thio:	sulfate H
ConocoPhillips PM:	MUA (dia		åč	□ Air	I	X	7	180	1												
Sample Identification	Date Collected	Time Collected	Grab	Soil	Water	lio	N. H.J.	FILE		1									Remarks				
YYWV-1	3/28/0R	1114	7	T	X		X	X	X		1												
MM. Z	1/	9:53	7		Ì			1	1														
MW-3		10:23	7				-																
Minjor it	*	10:54	7						ar there reads														
1hu-5		11:36	75				1	generated Policy									2						
111141-6		12:45	1.						-														
V11W-7		12:09	7						-														
Mul-8		2:00	N																				
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						CONTRACTOR OF THE PARTY OF THE																	
Consultant Information: Office City:	_State:		1	1	aroui 5									_	s (T.	AT) ((Circ	le Or	ie):				
Project Manager: Nim(0 Prago Phone Number: Fax:				Relinquished by:				n	121	·	¥1	Dat % /C	e 汉	Time		eceiv	ed b	y:		Date	Time		
Email: NYLVACGINALGERON ODV					Relinquished by: Date Time Re						eceiv	ived by: Date Time											
Electronic Data Deliverables (Circle (Reporting Requirements (Circle One)	One) tes/ No Form	ia(R	Relinquished by: Date Time				Time	R	eceiv	ed b	y:	and the second s	Date	Time								
Standard Reports/QC Summary Full	Validation (LLI Type	1)		eling	uished	by C	comm	ercis	ıl Ca	rrier:			_		+						1		
NJ Regulatory NJ Reduced NY AS	P-A NY ASP-B O	ther	1		nsnea	•					Othe	r			1.	Temr	erati	ire Ho	on Receint		Co		